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ATM

System and Method for Providing Distributed Fault Management Policies in a Network Management System Dan Bolar 10010463-1 1/15 POLICY BUILDER PROGRAM 000 126 107 MIB NE₂ CUSTOM OSS INTERFACE 123 7103 ¥ ALERT DISPLAY MANAGEMENT POLICIES 102 CMIP GATEWAY ş 122 OSS/NMS SNMP GATEWAY 121 COMMUNICATION SWITCH i 105 INTELLIGENT GATEWAY PROTOCOL AGENTS CMIP EMS 120 ~106 MODEM CUSTOM OSS INTELLIGENT PROTOCOL CMIP GATEWAY INTERFACE GATEWAY GATEWAY AGENTS SNMP ROUTER 111 112 SONET CMIP EMS SWN/SSO ROUTER MODEM SWITCH SONET NE2 ATM 핃

114~

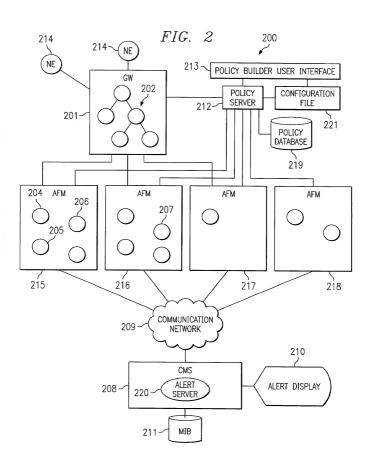
1147

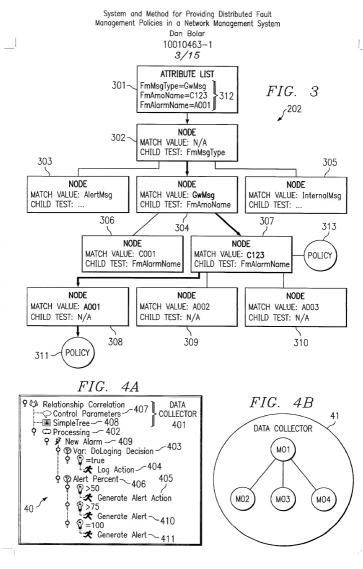
741

114/

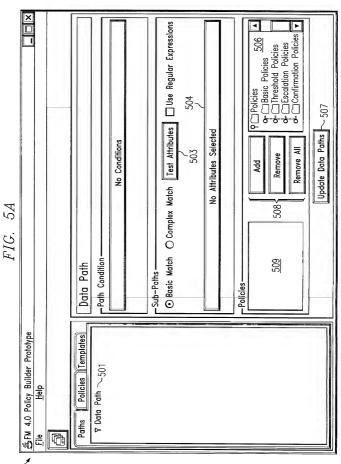
741

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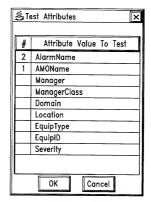


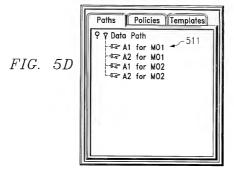
FIG. 5B

5,0

	b-Paths ——— Basic Match OC	omplex Match Test Attrib	outes 🔲 Use Regular Exp	oression
		504		
510 ~	Path Name	AMOName	Alarm Name	$\overline{\Box}$
505	A1 for MO1	A1	M01	_
	A2 for MO1	A2	MO1	П
	A1 for MO2	A1	M02	$\neg \sqcup$
Į	A2 for MO2	A2	M02	

FIG. 5C

System and Method for Providing Distributed Fault
Management Policies in a Network Management System
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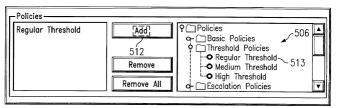
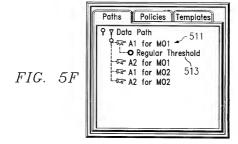


FIG. 5E



System and Method for Providing Distributed Fault Management Policies in a Network Management System Dan Bolor 10010463—1 7/15

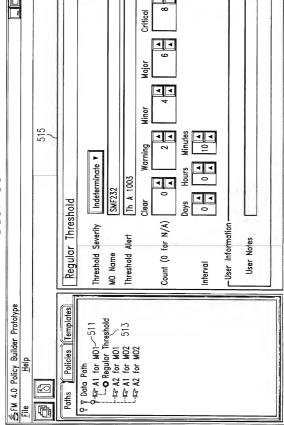


FIG. 5G

System and Method for Providing Distributed Fault Management Policies in a Network Management System Dan Bolar

10010463-1

FIG. 6A

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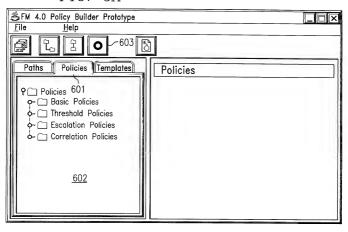
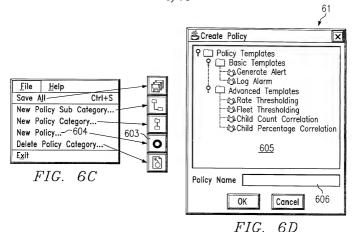


FIG. 6B

♀ ☐ Policies
P 🗀 Basic Policies
♀ ☐ Generate Alert
Generate 4004 Major
Generate 4004 Critical
Generate 1400 Major
Generate 2002
Generate 2003
O Log
• Clear
Threshold Policies
Regular Threshold
Medium Threshold
High Threshold
P Escalation Policies
Fast Escalation Slow Escalation
Correlation Policies
Relationship Based Correlation
Correlate Parent O Correlate Circuit
Correlate Circuit
P □ Pattern Correlation
● Basic Router Correlation
- Special Router Correlation
Super-Duper Correlation

System and Method for Providing Distributed Fault Management Policies in a Network Management System Dan Bolar 10010463-1 9/15



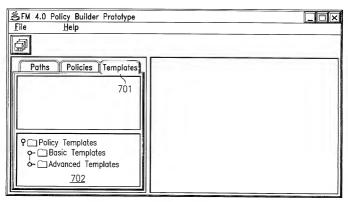
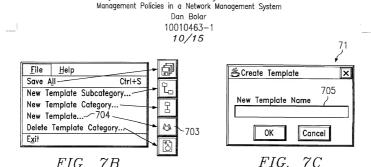


FIG. 7A



System and Method for Providing Distributed Fault

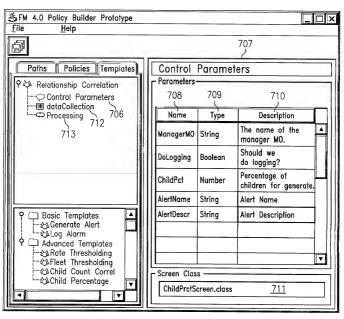


FIG. 7D

System and Method for Providing Distributed Fault Management Policies in a Network Management System Dan Bolar 10010463—1 11/15

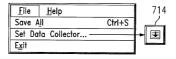


FIG. 7E

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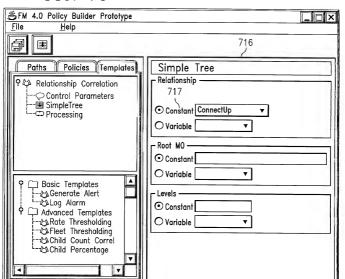
Collector	Description			
OneAlarm	Provides processing of single alarms			
SingleGroup	Organizes alarms into a single pre-defined group			
TwoGroups	Organizes alarms into two pre-defined groups			
SimpleTree	Organizes alarms into relationship tree using a single relati.			
ComplexTree	Organizes alarms into relationship tree using multiple relati			
715				

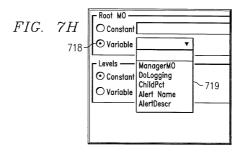
FIG. 7F

System and Method for Providing Distributed Fault Management Policies in a Network Management System Dan Bolar 10010463-1

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FIG. 7G





System and Method for Providing Distributed Fault Management Policies in a Network Management System Dan Bolar 10010463-1 13/15

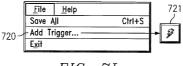


FIG. 71

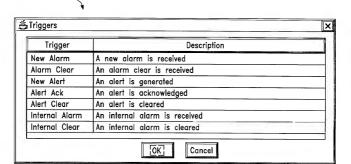


FIG. 7J

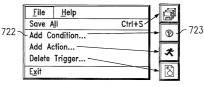


FIG. 7K

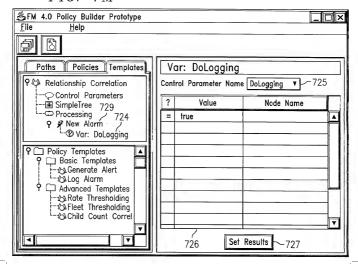
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FIG. 7L

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S Conditions <u>x</u>						
Condition		Description				
Var		Test the value of a policy control parameter				
Alarm	Instances	Test the number of alarm instances				
Alarm	Severity	Test the severity of the triggered alarm				
Has Al	ert	Test is the incoming alarm already has an alert				
Alert Percent		Check the percentage of alarms that have alerts				
Group	One Per	Check the percentage of alarms in group one that have alerts				
Group	Two Per	Check the percentage of alarms in group two that have alerts				
Child A	Alarm Per	Check the percentage of child MOs that have alarms				
Parent	Alarm	Test if the parent MO has an alarm				
MO Exists Te		Test the existence of an MO				
[OK] Cancel						

FIG. 7M



System and Method for Providing Distributed Fault Management Policies in a Network Management System Dan Bolar 10010463-1 15/15

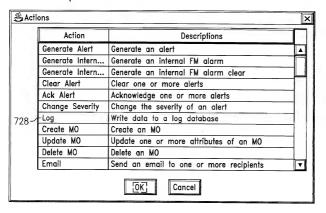


FIG. 7N